

ALABAMA DEPARTMENT OF TRANSPORTATION
PROCEDURE FOR EVALUATION AND MAINTENANCE OF

LIST I-3

MINERAL ADMIXTURES FOR USE IN PORTLAND CEMENT CONCRETE

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| <p>1. <u>Material:</u> Fly Ash and Silica Fume and Ground Granulated Blast Furnance Slag (GGBFS)</p> <p>2. <u>Specification:</u> Sections 806 and 818</p> <p>3. <u>Jurisdiction:</u> Product Evaluation Board (Concrete Engineer)</p> <p>4. <u>Job Acceptance Requirements:</u> No Job Control Testing required if material performs satisfactorily.</p> <p>5. <u>Project Engineer's Responsibility:</u> The Project Engineer must verify that the materials are from approved sources.</p> <p>6. <u>Procedure for Fly Ash</u></p> <p>6.1 <u>Producer's Initial Requirements:</u> Persons wishing to have sources evaluated should furnish the Product Evaluation Board with the following:</p> <p>6.1.1 Name and address of the company producing the product, to include the sales and technical representative or contact person at the plant.</p> <p>6.1.2 Class of Fly Ash being produced.</p> <p>6.1.3 Test data covering the parameters in AASHTO M-295 including the supplementary optional chemical requirement in Table 2, for a period of six months prior to the request.</p> <p>6.1.4 A 5 kg sample of current run fly ash.</p> <p>6.1.5 Submittal and testing fees in accordance with procedure BMTP-355.</p> <p>6.2. <u>Producer's Maintenance Requirements:</u> The producer of the material will be required to carry out the following:</p> <p>6.2.1 Furnish one random sample of approximately 5 kg, to the Department, each month that the source is active.</p> <p>6.2.2 Furnish the Department with test data covering the parameters required in AASHTO M-295 for each month that the source is active. This data may be acquired by analysis of a composite sample taken during the month. Data for available alkalis will be required.</p> <p>6.2.3 Notify the Department of any changes in name or address or ownership.</p> <p>6.2.4 If a source stops producing, the producer will be required to furnish the Department with a letter stating the period of time that the plant is to be inactive.</p> | <p>6.2.5 Resubmit the information and samples required for the initial evaluation when ever the product is changed.</p> <p>6.3 <u>Laboratory Requirements:</u> The Department will make selected verification tests of the product to assure that it meets the Department's current Specifications.</p> <p>6.4 <u>Contractor's Requirements:</u> The prime contractor will be responsible for purchasing and using only approved fly ashes.</p> <p>6.5 <u>Removal of Products:</u> Products will be removed from this list for any of the following reasons:</p> <p>6.5.1 Mislabeling products or substitution of products other than those originally evaluated.</p> <p>6.5.2 Failure to comply with any of the requirements of this procedure.</p> <p>6.5.3 Failure to perform satisfactorily in the field.</p> <p>7. <u>Procedure for Microsilica</u></p> <p>7.1 <u>Producer's Initial Requirements:</u> Persons wishing to have sources evaluated should furnish the Product Evaluation Board with the following:</p> <p>7.1.1 Name and address of the company producing the product, to include the sales and technical representative or contact person at the plant.</p> <p>7.1.2 Form of Microsilica being produced (slurry or powder).</p> <p>7.1.3 Test data covering the parameters in AASHTO M-307, for a period of six months prior to the request.</p> <p>7.1.4 A 5 kg sample of current run powder microsilica or 4 liters of liquid microsilica</p> <p>7.1.5 Submittal and testing fees in accordance with procedure BMTP-355.</p> <p>7.2 <u>Producer's Maintenance Requirements:</u> The producer of the material will be required to carry out the following:</p> <p>7.2.1 Furnish one sample of approximately 5 kg, to the Department, each month that the source is active.</p> <p>7.2.2 Furnish the Department with test data covering the parameters required in AASHTO M-307 for each month that the source is active. This data may be acquired by analysis of a composite sample taken during the month.</p> <p>7.2.3 Notify the Department of any changes in</p> |
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- name or address or ownership.
- 7.2.4 If a source stops producing, the producer will be required to furnish the Department with a letter stating the period of time that the plant is to be inactive.
- 7.2.5 Resubmit the information and samples required for the initial evaluation whenever the product is changed.
- 7.3 **Laboratory Requirements:** The Department will make selected verification tests of the product to assure that it meets the Department's current Specifications.
- 7.4 **Contractor's Requirements:** The prime contractor will be responsible for purchasing and using only approved silica fume.
- 7.5 **Removal of Products:** Products will be removed from this list for any of the following reasons:
- 7.5.1 Mislabeling products or substitution of products other than those originally evaluated.
- 7.5.2 Failure to comply with any of the requirements of this procedure.
- 7.5.3 Failure to perform satisfactorily in the field.
8. **Procedure for Ground Granulated Blast Furnance Slag (GGBFS)**
- 8.1 **Producer's Initial Requirements:** Persons wishing to have sources evaluated should furnish the Product Evaluation Board with the following:
- 8.1.1 Name and address of the company producing the product, to include the sales and technical representative or contact person at the plant.
- 8.1.2 Grade of GGBFS (Grade 100 or 120) being produced.
- 8.1.3 Furnish monthly test data, covering the period 6 months prior to the request. This test data shall cover all parameters in AASHTO M-302, Tables 1 & 2. The referenced cement required in Table 3 shall be limited to a total alkali content below 0.6 in lieu of the required cement which requires the alkali content between 0.6 and 0.9
- 8.1.4 A 5 kg sample of current run GGBFS.
- 8.1.5 Submittal and testing fees in accordance with procedure BMTP-355.
- 8.2. **Producer's Maintenance Requirements:** The producer of the material will be required to carry out the following:
- 8.2.1 Furnish one random sample of approximately 5 kg, to the Department, each month that the source is active.
- 8.2.2 Furnish the Department with test data covering the parameters required in AASHTO M-302 for each month that the source is active. This data may be acquired by analysis of a composite sample taken during the month. Data for available alkalis will not be required.
- 8.2.3 Notify the Department of any changes in name or address or ownership.
- 8.2.4 If a source stops producing, the producer will be required to furnish the Department with a letter stating the period of time that the plant is to be inactive.
- 8.2.5 Resubmit the information and samples required for the initial evaluation when ever the product is changed.
- 8.3 **Laboratory Requirements:** The Department will make selected verification tests of the product to assure that it meets the Department's current Specifications.
- 8.4 **Contractor's Requirements:** The prime contractor will be responsible for purchasing and using only approved GGBFS.
- 8.5 **Removal of Products:** Products will be removed from this list for any of the following reasons:
- 8.5.1 Mislabeling products or substitution of products other than those originally evaluated.
- 8.5.2 Failure to comply with any of the requirements of this procedure.
- 8.5.3 Failure to perform satisfactorily in the field.
9. **Correspondence:** All correspondence should be mailed to the following:
- Product Evaluation Board
Alabama Department of Transportation
3704 Fairground Road
Montgomery, AL 36110